Claims

We claim,

- 1. A method of generating embryonic stem (ES) cell colonies exhibiting drug resistance to a selection agent, comprising introducing into the ES cells an exogenous DNA comprising a ubiquitin promoter, and a drug resistance gene under control of the ubiquitin promoter.
- 2. The method of claim 1, wherein the ES cells are mammalian ES cells.
- 3. The method of claim 2, wherein the mammalian ES cells are mouse ES cells.
- 4. The method of claim 1, wherein the drug resistance gene encodes neomycin phosphotransferase.
- 5. The method of claim 1, wherein the drug resistance gene encodes hygromycin phosphotransferase.
- 6. The method of claim 1, wherein the drug resistance gene encodes puromycin acetyl transferase.
- 7. The method of claim 1, wherein the ubiquitin promoter is the ubiquitin C promoter.
- 8. The method of claim 7, wherein the ubiquitin promoter is a human, mouse, rat, or bacterial ubiquitin promoter.
- 9. A method of targeting a targeting vector into ES cells, comprising introducing into the ES cells a targeting vector comprising a drug resistance gene under control of a ubiquitin promoter.
- 10. The method of claim 9, wherein the ES cells are mammalian ES cells.
- 11. The method of claim 10, wherein the mammalian ES cells are mouse ES cells.
- 12. The method of claim 9, wherein the drug resistance gene encodes neomycin phosphotransferase.
- 13. The method of claim 9, wherein the drug resistance gene encodes hygromycin phosphotransferase.

- 14. The method of claim 9, wherein the drug resistance gene encodes puromycin acetyl transferase.
- 15. The method of claim 9, wherein the ubiquitin promoter is the ubiquitin C promoter.
- 16. The method of claim 15, wherein the ubiquitin promoter is a human, mouse, rat, or bacterial ubiquitin promoter.